SEQUENCE LISTING

<110> The Secretary of State for Defence in Her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland
Tisi, Laurence C
Murray, James AH
Lowe, Christopher R
White, Peter J
Murphy, Melanie J
Price, Rachel L
Squirrell, David

<120> Novel enzyme

<130> IPD/P1206/WOD

<140> PCT/GB99/03538
<141> 1999-10-26

<150> GB 9823468.5
<151> 1998-10-28

<160> 35

<170> PatentIn Ver. 2.1

<210> 1
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 1
cgccggtgag ctccccgccg ccg 23

<210> 2
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 2
cggcggcggg gagctcaccg gcg 23

<210> 3
<211> 51

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 3
cgaacacttc ttcatcgttg accgccttaa gtctttaatt aaatacaaag g 51

<210> 4
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 4
cctttgtatt taattaaaga cttaaggcgg tcaactatga agaagtgttc g 51

<210> 5
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 5
gaaaggcccg gcaccagcct atcctctaga gg 32

<210> 6
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 6
cctctagcgg ataggctggt gccgggcctt tc 32

<210> 7
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:

Oligonucleotide

<400> 7
ccataaattt accgaattcg tcgacttcga tcgagg 36

<210> 8
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 8
gtgtggaatt gtgagcgg 18

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 9
gagatacgcc gcggttcctg g 21

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 10
ccaggaaccg cggcgtatct c 21

<210> 11
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 11
ccctattttc attcctggcc aaaagcactc 30

<210> 12
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 12
gagtgctttt ggccaggaat gaaaataggg 30

<210> 13
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 13
ccgcatagag ctctctgcgt cagattc 27

<210> 14
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 14
gaatctgacg cagagagctc tatgcgg 27

<210> 15
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 15
gttgaccgct tgggatcctt aattaaatac 30

<210> 16
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 16
gtatagattt gaaaaagagc tg 22

<210> 17
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 17
cagctctttt tcaaatctat ac 22

<210> 18
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 18
ggctacatac tggagacata gc 22

<210> 19
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 19
gctatgtctc cagtatgtag cc 22

<210> 20
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 20
gcagttgcgc ccgtgaacga c 21

<210> 21
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 21
gtcgttcacg ggcgcaactg c 21

<210> 22
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 22
caaatcattc cgggtactgc gattttaag 29

<210> 23
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 23
cttaaaatcg cagtacccgg aatgatttg 29

<210> 24
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 24
ccgcatagaa ctctctgcgt cagattc 27

<210> 25

<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 25
gaatctgacg cagagagttc tatgcgc 27

<210> 26
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 26
ctgattacac ccaaggggga tg 22

<210> 27
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 27
catccccctt gggtgtaatc ag 22

<210> 28
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (15)
<223> n=a or g or c or t

<220>
<221> misc_feature
<222> (16)
<223> n=a or g or c or t

<220>
<221> misc_feature
<222> (17)
<223> n=a or g or c or t

<400> 28
cccttccgca tagannngcc tgcgtcagt 29

<210> 29
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<220>
<221> misc_feature
<222> (13)
<223> n=a or g or c or t

<220>
<221> misc_feature
<222> (14)
<223> n=a or g or c or t

<220>
<221> misc_feature
<222> (15)
<223> n=a or g or c or t

<400> 29
actgacgcag gcnnntctat gcggaaggg 29

<210> 30
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 30
gcaatcaaat cgctccggat actgc 25

<210> 31
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:

Oligonucleotide

<400> 31
gcagtatccg gagcgatttg attgc 25

<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 32
ccattccatc aaggttttgg 20

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 33
ccaaaacctt gatggaatgg 20

<210> 34
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 34
aaacagggac ccatatggaa gacgc 25

<210> 35
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 35
aattaactcg aggaatttcg tcatcgctga atacag 36